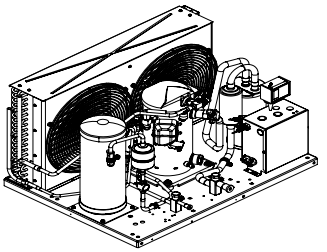
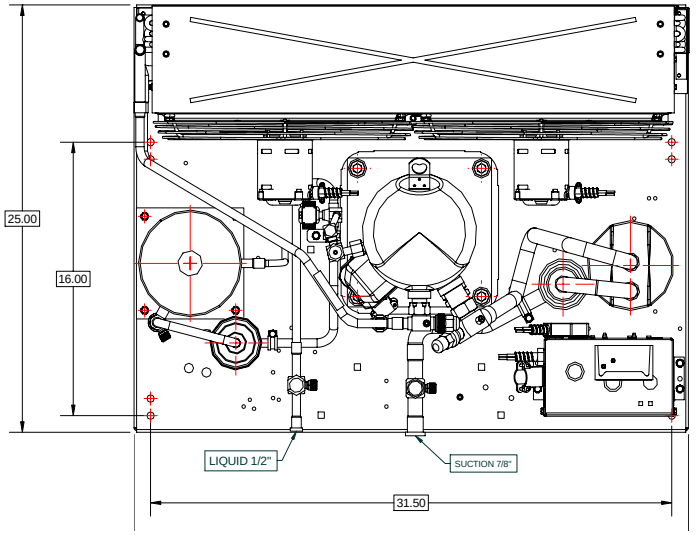
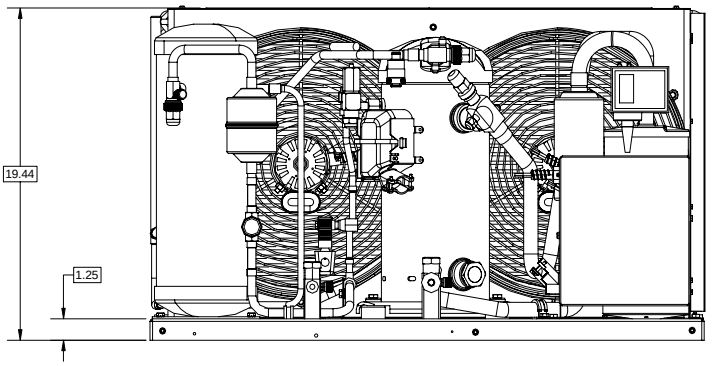
TECUMSEH HERMETIC CONDENSING UNIT

Model	**VSAG490ZXTXM**
BOM	**32T2242-2**
Air Cooled	**2 ¼ HP**
Application	**Low Temp**
Refrigerant	**R404A**







VSAG490ZXTXM	Dimensions (inch)*			Line connections		Pumpdown	Air flow	Oil Ch.	Gross weight
	L	W	H	Suction	Liquid	90% @ 90°F	SCFM	Oz.	Lbs.
	25.00	33.50	19.44	7/8 Sweat	1/2 Sweat	20.44	1525	24	200

*) Mounting Holes, 16.00 x 31.50

Factory charge 20 psig dry air, **MUST BE EVACUATED**

Evaporator		Ambient Temperatures															
		80°F				90°F				100°F				110°F			
T, °F	PSIG	BTUH	Watts	Head	Cond T	BTUH	Watts	Head	Cond T	BTUH	Watts	Head	Cond T	BTUH	Watts	Head	Cond T
-40	5.5	4400	1840	195	87	4000	2040	226	97	3900	2240	261	107	3600	2430	298	117
-35	8.0	5100	1880	197	88	4600	2080	228	98	4400	2280	264	108	4000	2470	300	117
-30	10.7	6000	1930	200	89	5400	2130	231	99	5100	2330	266	109	4600	2520	303	118
-25	14.0	6800	1990	204	90	6100	2180	234	100	5700	2380	269	109	5100	2570	306	119
-20	17.1	7700	2050	207	91	6900	2240	238	101	6400	2430	273	110	5800	2630	310	120
-15	19.3	8600	2120	212	93	7800	2300	242	102	7200	2500	277	111	6500	2690	314	121
-10	**24.5**	**9600**	**2190**	**217**	**94**	**8700**	**2370**	**246**	**103**	**8000**	**2560**	**281**	**112**	**7200**	**2750**	**318**	**122**
-5	28.8	10700	2260	222	96	9600	2440	251	104	8900	2620	285	114	8100	2810	323	123
0	33.5	11800	2340	227	97	10700	2510	256	106	9900	2690	290	115	9000	2880	327	124
5	36.5	13000	2410	232	99	11800	2580	261	107	11000	2760	295	116	9900	2940	332	125
10	43.7	14200	2490	238	101	13000	2640	266	108	12100	2820	300	117	11000	3010	337	126

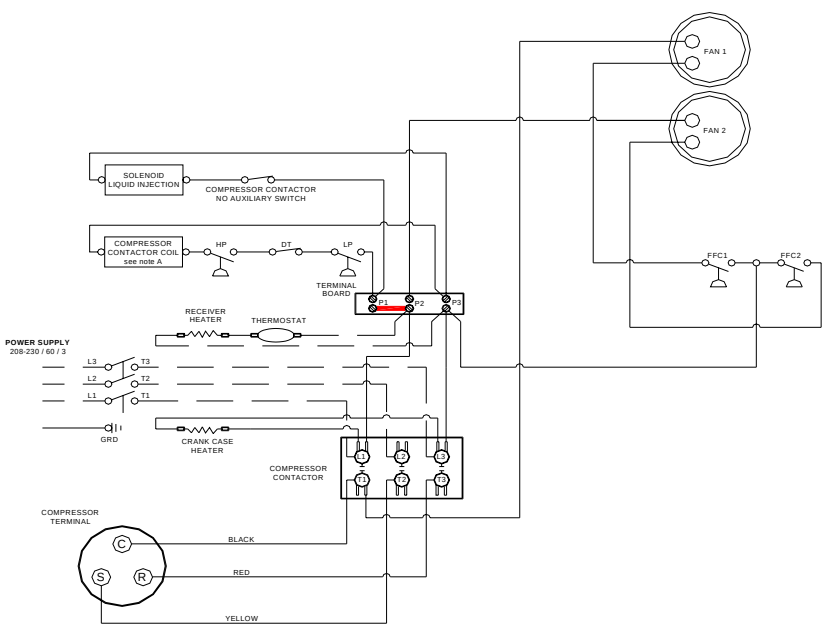
Performance @ 60 Hz, Return gas 40°F, SubCooling 5°F

PRELIMINARY PERFORMANCE DATA

Parts/Specifications

Unit BOM	**32T2242-2**	Fan Motor	810F050C20
Unit MODEL	**VSAG490ZXTXM**	Fan Motor Qty	2
		Fan Motor RLA	0.7
Refrigeration RANGE	-40°F to 10°F	Fan Blade	51568-1
Design Pressure Low	181	Fan Guard	70831
Design Pressure High	450	Shroud	70648-2
Volts - HZ - Ph	200-230V 3~ 60HZ		
Voltage Range	180 - 253	High Pressure switch	84095-2
Min. Circuit Ampacity	11.12	Low Pressure Control	84026-2
Max. Fuse Size	20	Dual Pressure Conrol	
Compressor MODEL	VSAG475ZXT	Condenser	50858
Compressor BOM	VS117RT-008-A4	Head Master Valve	
Compressor LRA	77.5	Check Valve	
Compressor RLA	7.78	Process Valve	
		Liquid Valve	
OverLoad	INTERNAL	Suction Valve	31529-2
Relay			
Run Capacitor		Receiver	51099-2L
Run Capacitor Rating		Receiver Qty	1
Start Capacitor		Accumulator	TK00042000
Start Capacitor Rating		Liquid Filter	52000-084D
Contactor	91014B	Sight Glass	70084-2
		Suction Filter	70822-5S
Unit Drawing	DGU1950-12		
Wiring Diagram	WD23-2FL	CrankCase Heater	

IMPORTANT:
COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR. ALLOW TIME FOR RESET.
USE COPPER CONDUCTORS ONLY.
(EMPLOYER DES CONDUCTEUERS DE CUIVER SEULEMENT.)



NOTES

FIELD WIRING NOTES

1. ALL FIELD WIRING MUST BE DONE IN COMPLIANCE WITH ALL APPLICABLE LOCAL AND NATIONAL CODES.
2. CONNECT INCOMING POWER LEADS FROM POWER SUPPLY TO L1, L2, AND L3 IN COMPRESSOR CONTACTOR OR TO L1, L2 AND L3 IN DISCONNECT SWITCH (IF PROVIDED). USE COOPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.) PROVIDE EQUIPMENT GROUNDING CONDUCTOR. USE 75°C (MIN.) WIRING
3. IF REQUIRED INSTALL SYSTEM REMOTE CONTROL BETWEEN P1 AND P2 IN TERMINAL BLOCK AND REMOVE THE JUMPER

GENERAL NOTES:

A. CONTACTOR COIL CIRCUIT IS FACTORY CONNECTED TO 230 V SOURCE IN PANEL AS SHOWN
B. COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR. ALLOW TIME FOR RESET.

FFC1 (FFC2) — FAN CONTROL 1 (2)
LP — LOW PRESSURE CONTROL
HP — HIGH PRESSURE SWITCH
DT — DISCHARGE LINE THERMOSTAT
——— FACTORY COMPONENTS
– – – – – OPTIONAL FACTORY COMPONENTS
——— OPTIONAL FIELD COMPONENTS

CONDENSING UNIT WIRING, 230V 60Hz 3 Ph,
Liquid Injection Solenoid,
Fan control,

REL
REVISION
DEC 21, 2010

WD23-2FL